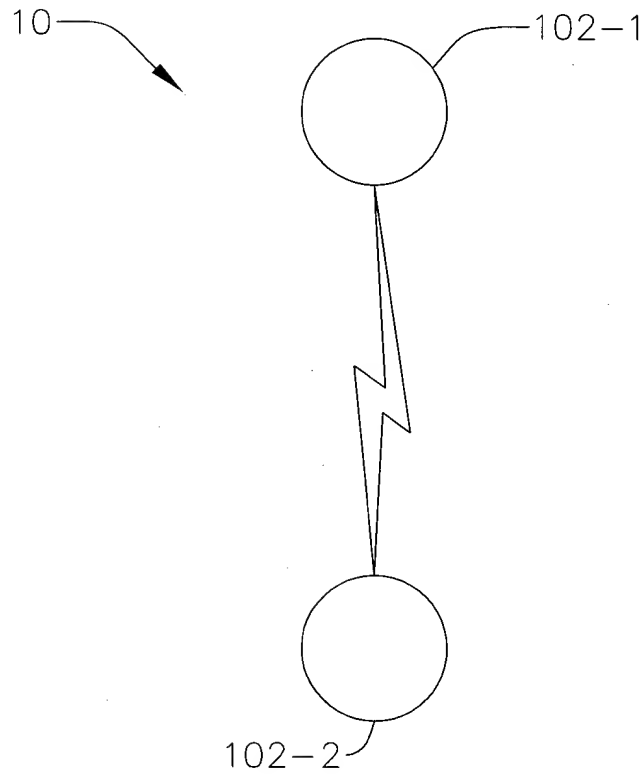
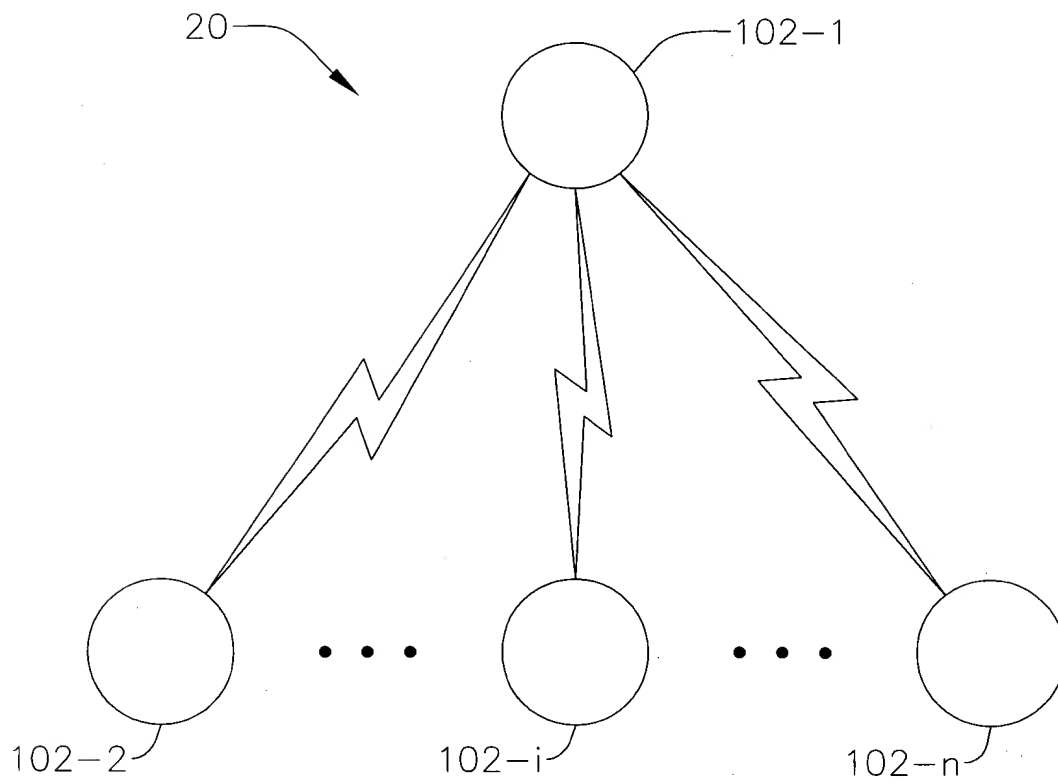




*FIG. 1*  
PRIOR ART



*FIG. 2*  
PRIOR ART



**FIG. 3**  
PRIOR ART

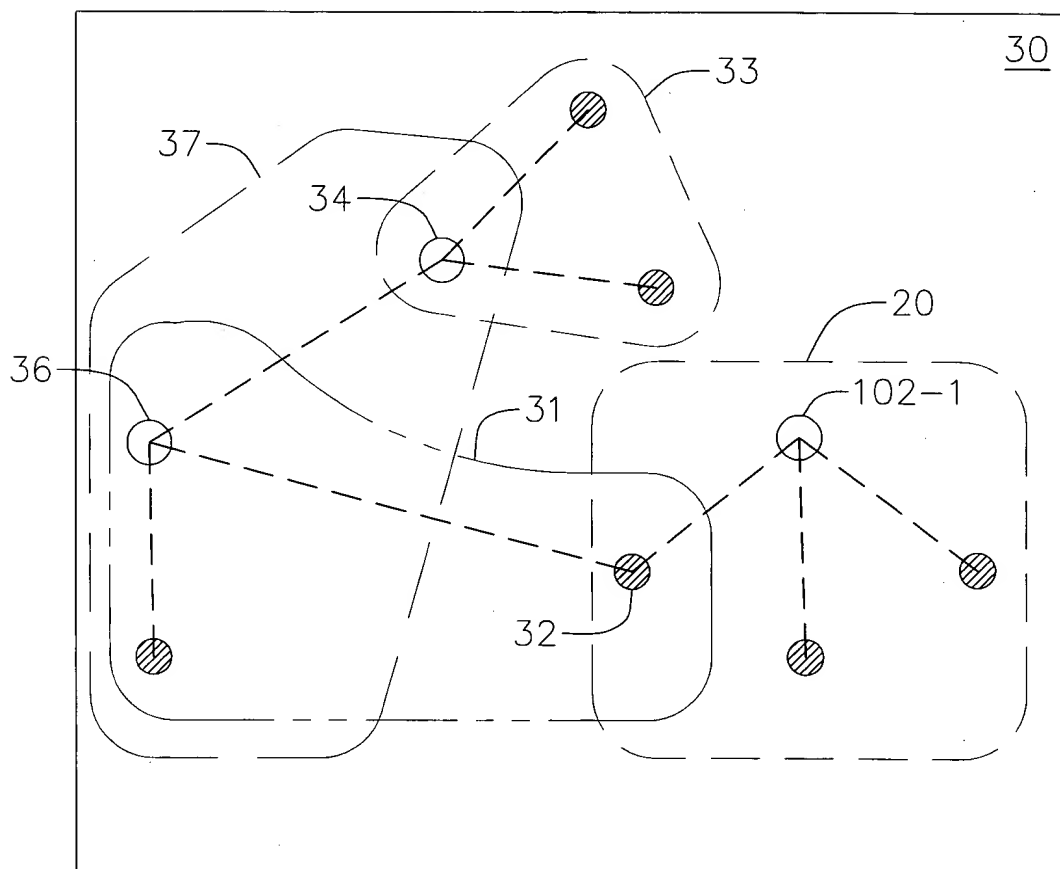
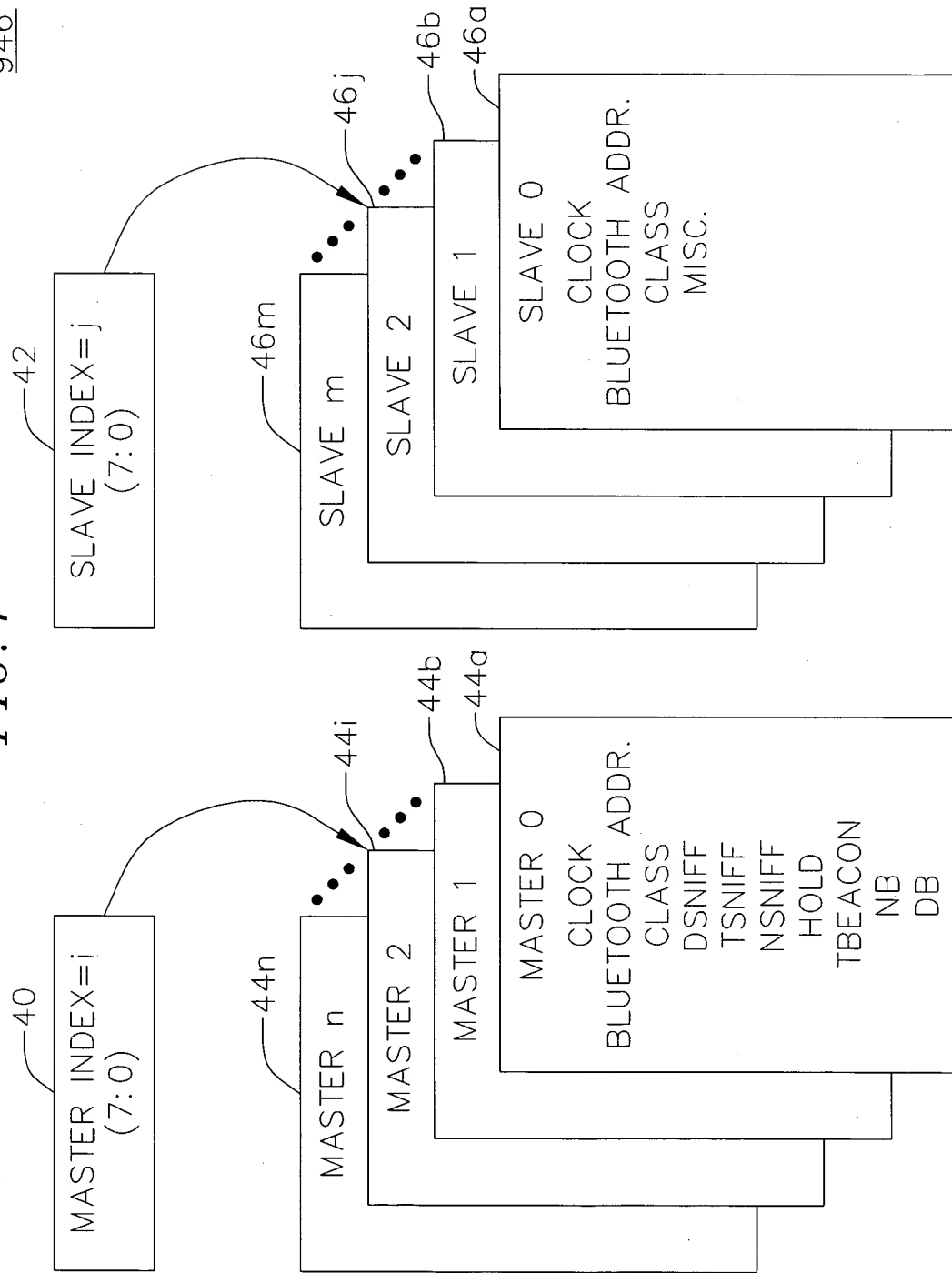


FIG. 4

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*FIG. 5*

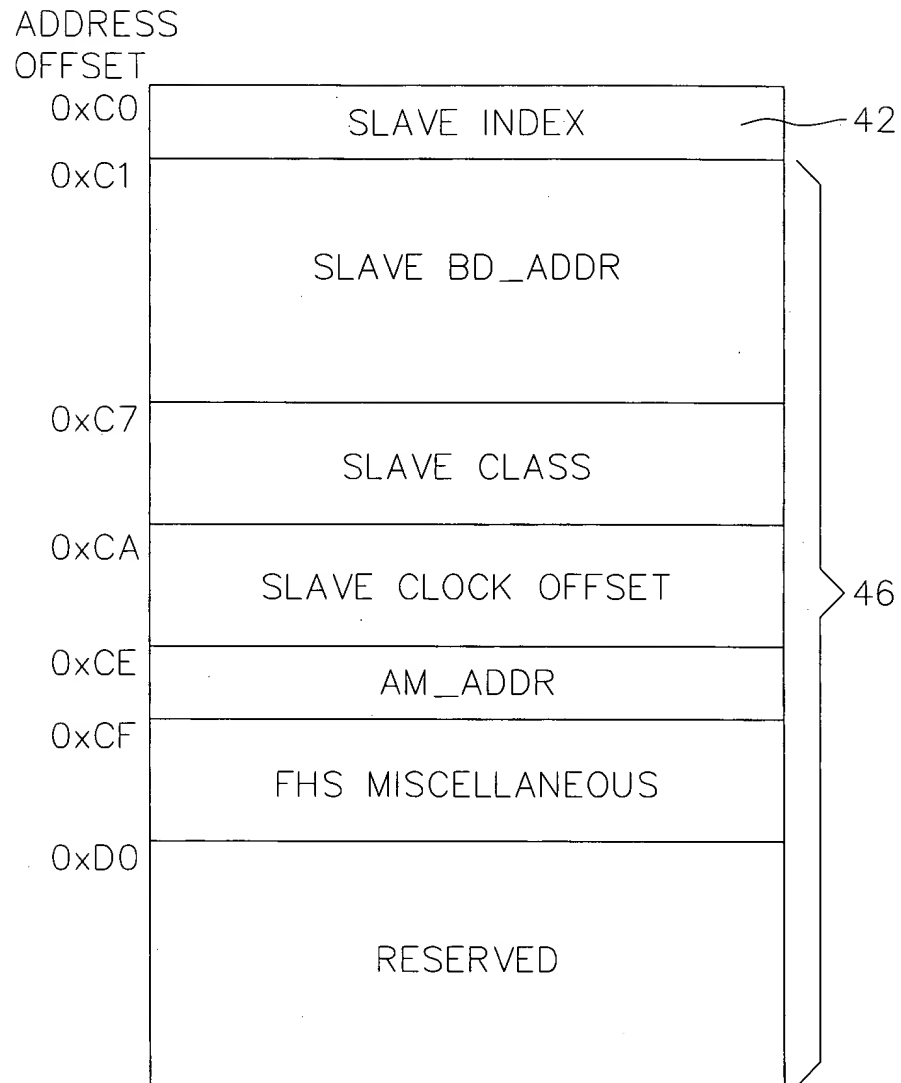
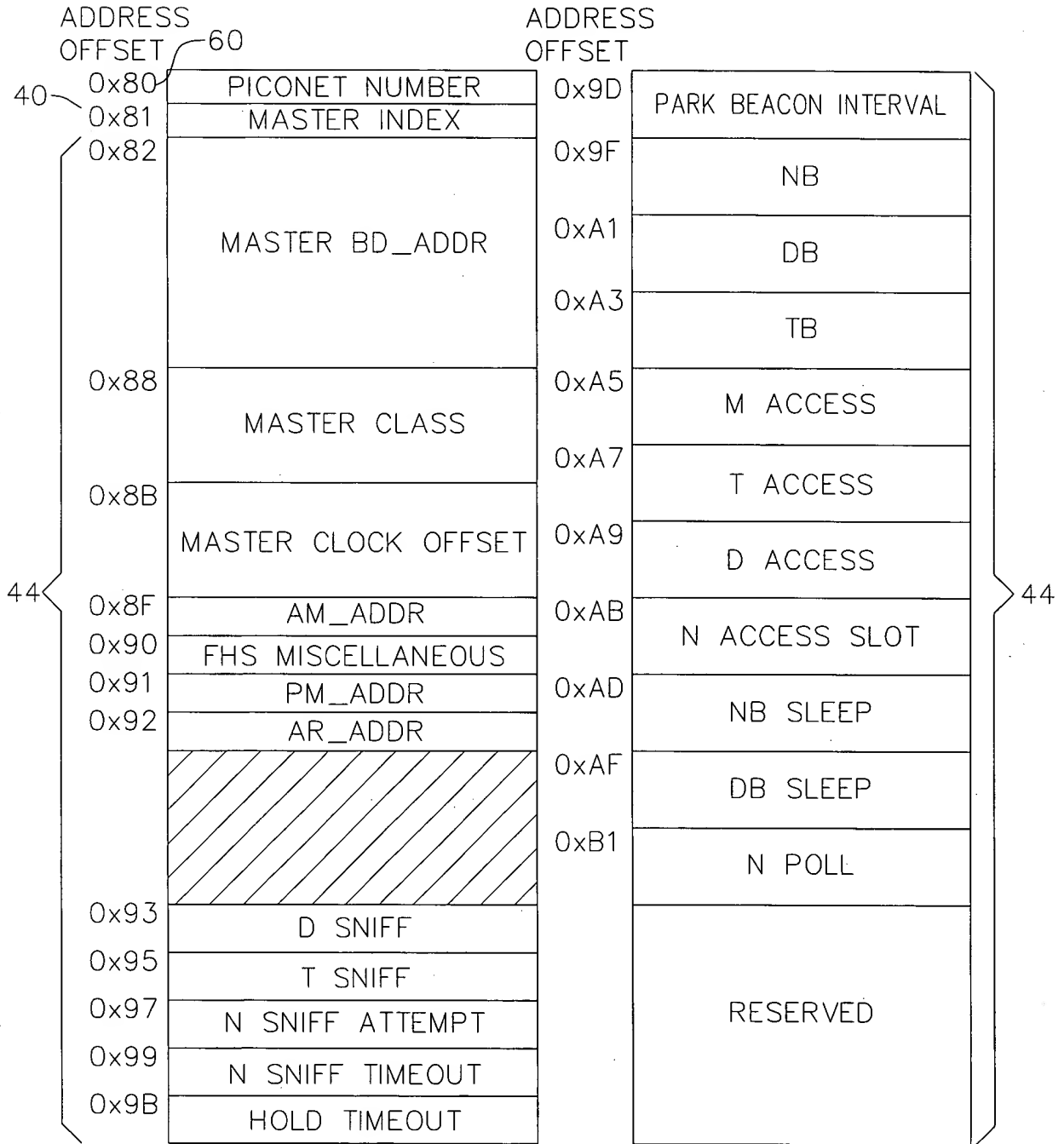
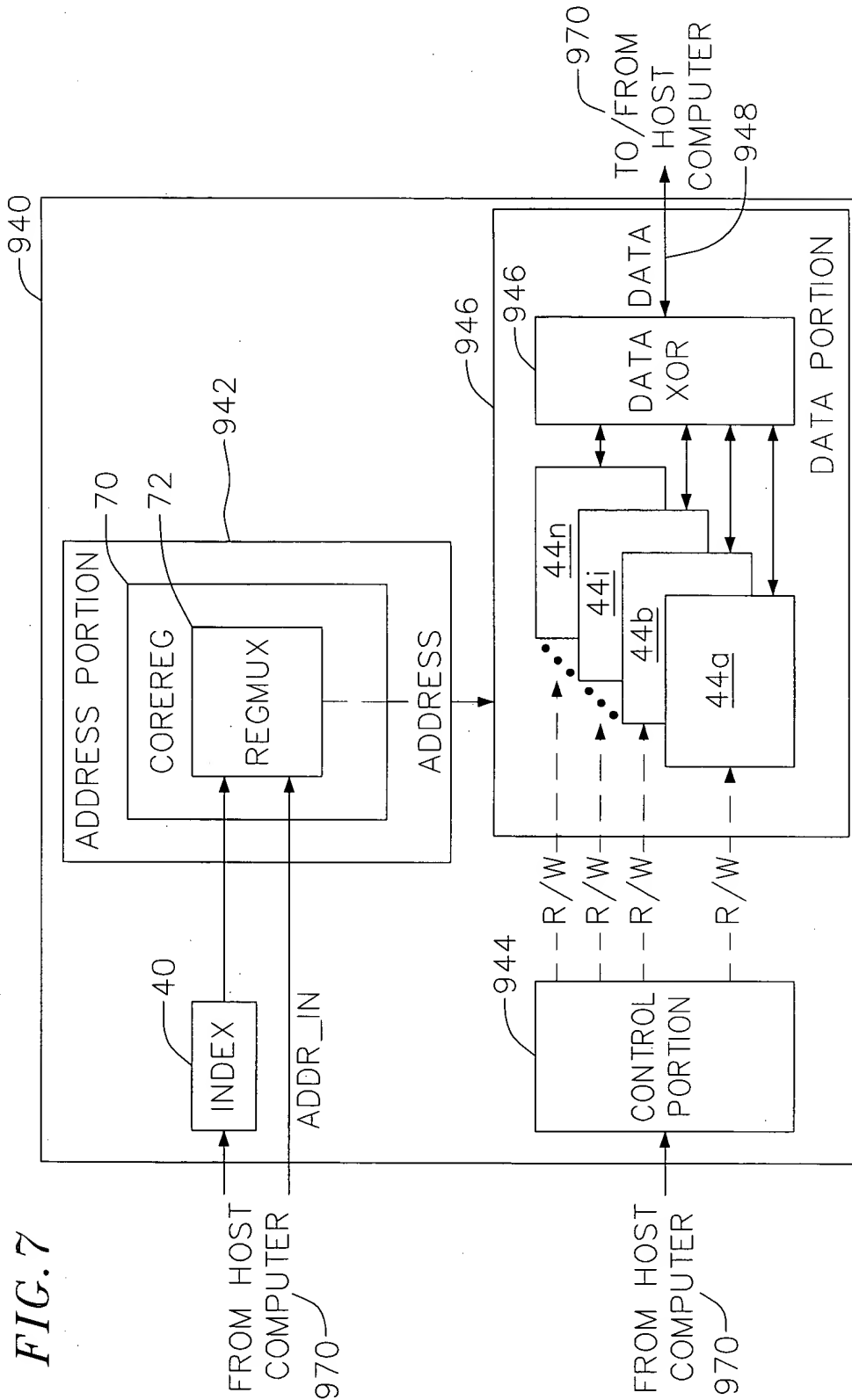


FIG. 6





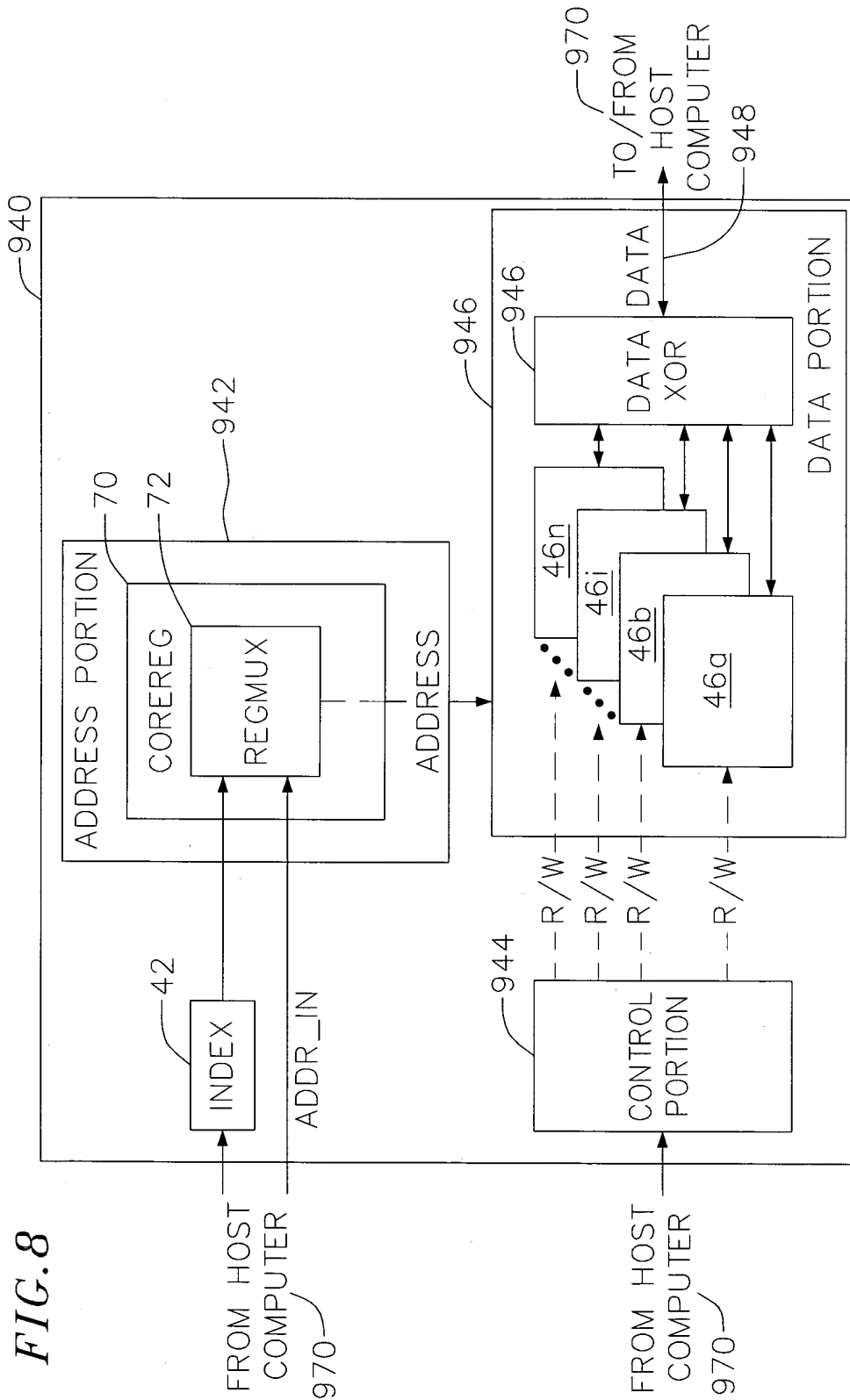
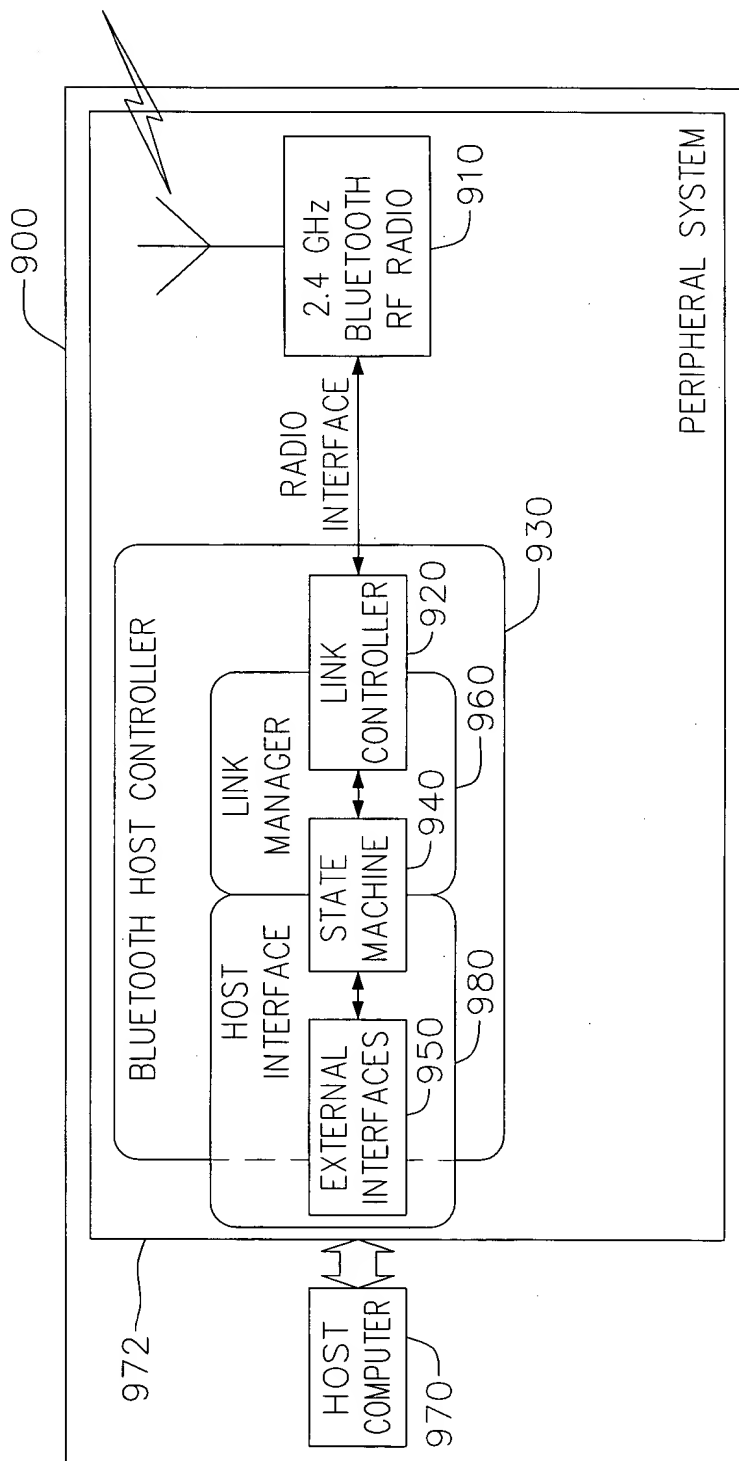




FIG. 9





**FIG. 10A**

The flowchart illustrates the operational logic of a slave station, starting from a **SLAVE FSM STANDBY** state. It branches into two main scanning modes: **PAGE SCAN** and **INQUIRY SCAN**.

**PAGE SCAN Sequence:**

- Triggered by a **PAGE SCAN COMMAND**.
- Enters a **LOOP: GENERATE PAGE HOP FREQ. SCAN FOR TW LENGTH**.
- Decision: **PAGE DETECTED?**
  - If **+** (Yes): **DETECT PREAMBLE (SLOT START) CALCULATE SKEW RESPOND WITH ID LISTEN FOR MASTER FHS** → **FHS DETECTED BEFORE TO?**
    - If **+** (Yes): **RESPOND WITH ID, GENERATE CHANNEL HOP FREQ. LISTEN FOR 1ST. TRAFFIC** → **1ST. TRAFFIC DETECTED BEFORE TO?**
      - If **+** (Yes): **CONNECTION ESTABLISHED**.
      - If **-** (No): **RETURN TO PAGE SCAN**.
    - If **-** (No): **RETURN TO PAGE SCAN FOR 1ST. SCAN PERIOD** → **TO** (next to INQUIRY SCAN).
  - If **-** (No): **RETURN TO STANDBY OR CONNECTION**.

**INQUIRY SCAN Sequence:**

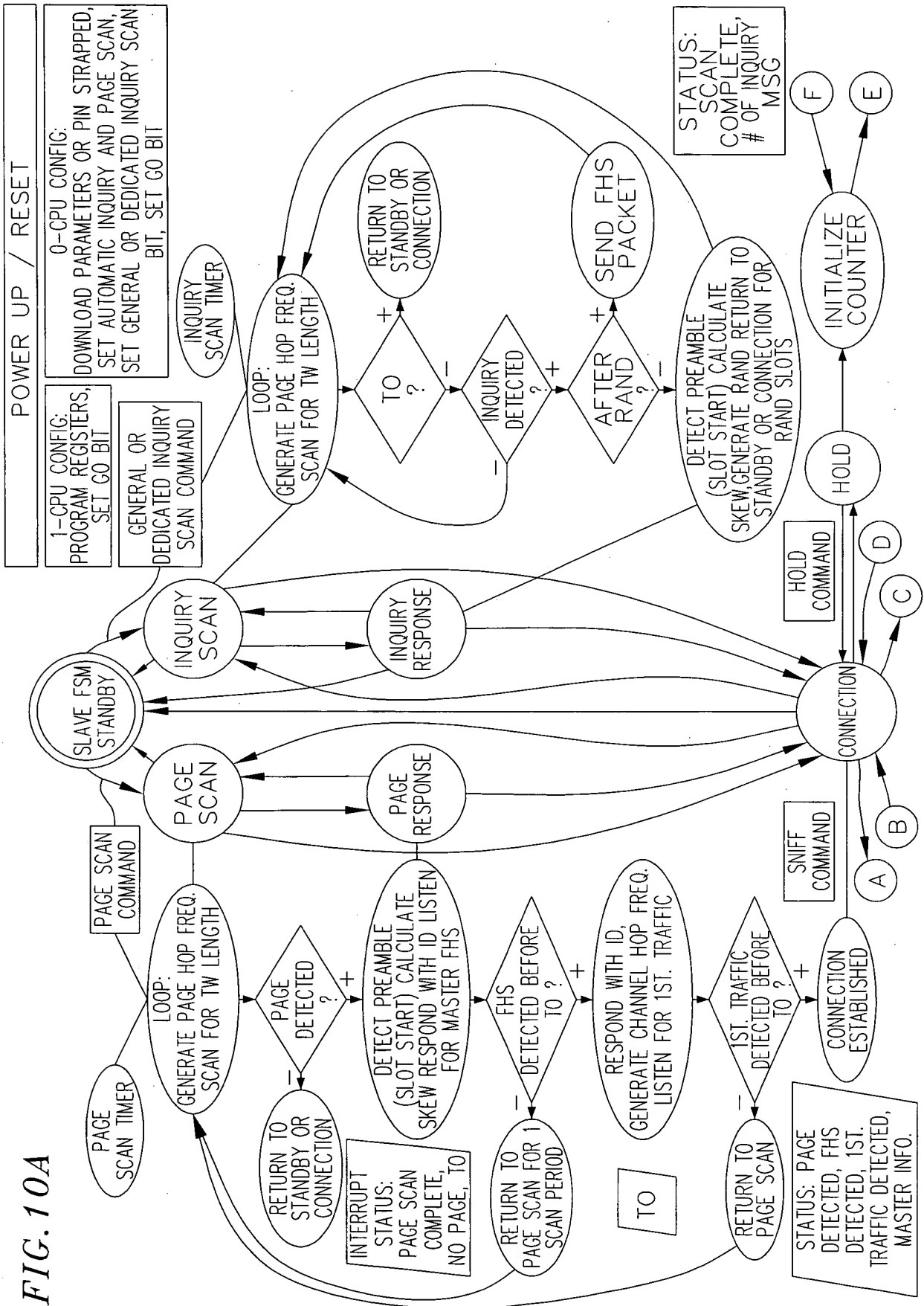
- Triggered by a **GENERAL OR DEDICATED INQUIRY SCAN COMMAND**.
- Enters a **LOOP: GENERATE PAGE HOP FREQ. SCAN FOR TW LENGTH**.
- Decision: **TO?**
  - If **+** (Yes): **RETURN TO STANDBY OR CONNECTION**.
  - If **-** (No): **INQUIRY DETECTED?**
    - If **+** (Yes): **AFTER RAND?**
      - If **+** (Yes): **SEND FHS PACKET** → **DETECT PREAMBLE (SLOT START) CALCULATE SKEW, GENERATE RAND RETURN TO STANDBY OR CONNECTION FOR RAND SLOTS**.
      - If **-** (No): **DETECT PREAMBLE (SLOT START) CALCULATE SKEW, GENERATE RAND RETURN TO STANDBY OR CONNECTION FOR RAND SLOTS**.
    - If **-** (No): **DETECT PREAMBLE (SLOT START) CALCULATE SKEW, GENERATE RAND RETURN TO STANDBY OR CONNECTION FOR RAND SLOTS**.

**CONNECTION and Standby States:**

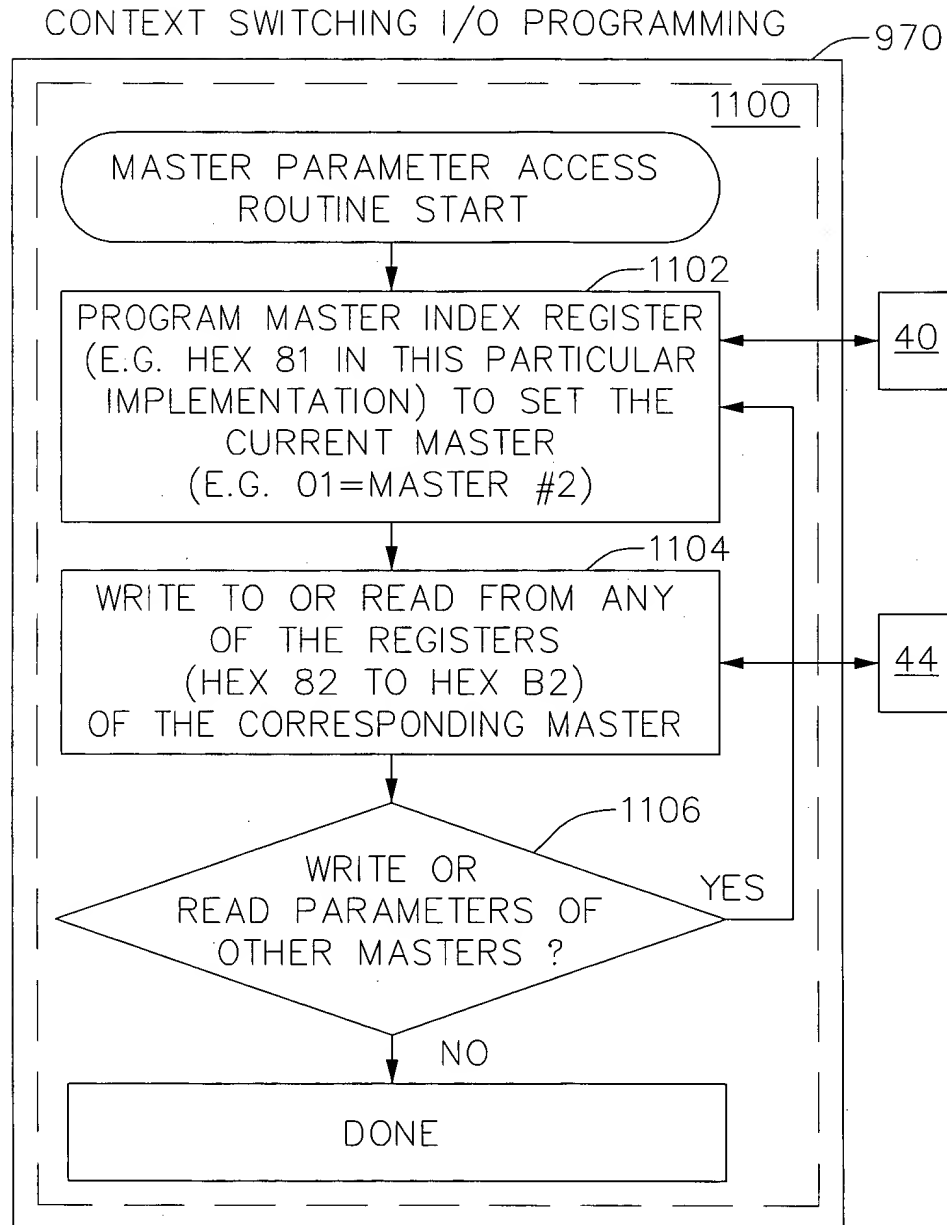
- CONNECTION** state is reached from **CONNECTION ESTABLISHED** or **RETURN TO STANDBY OR CONNECTION**.
- From **CONNECTION**, commands **A**, **B**, **C**, and **D** are processed.
- SNIFF COMMAND** leads to **CONNECTION ESTABLISHED**.
- HOLD COMMAND** leads to **HOLD** state.
- INITIALIZE COUNTER** leads to **STATUS: SCAN COMPLETE, # OF INQUIRY MSG**.
- SLAVE FSM STANDBY** is reached from **RETURN TO STANDBY OR CONNECTION** or **INITIALIZE COUNTER**.

**Interrupts and Power Management:**

- INTERRUPT STATUS: PAGE SCAN COMPLETE, NO PAGE, TO** leads to **RETURN TO PAGE SCAN FOR 1ST. SCAN PERIOD**.
- POWER UP / RESET** leads to **1-CPU CONFIG: PROGRAM REGISTERS, SET GO BIT** and **0-CPU CONFIG: DOWNLOAD PARAMETERS OR PIN STRAPPED, SET AUTOMATIC INQUIRY AND PAGE SCAN, SET GENERAL OR DEDICATED INQUIRY SCAN BIT, SET GO BIT**.



*FIG. 11*



*FIG. 12*

